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```
In [1]: from web3 import Web3

# No provider is required for creating accounts.
w3 = Web3()

In [4]: def mine_address_starting_with(chars):
    while True:
```

```
def mine_address_starting_with(chars):
    while True:
        acct = w3.eth.account.create("for-purpose-of-adding-randomness")
        if acct.address.lower().startswith(chars):
            print(f"public address: {acct.address}")
            print(f"private key: {acct.key.hex()}")
            break

mine_address_starting_with("0xfff")
```

public address: 0xFFFBaC7acE46301387Bc43157FA788050981fe45
private key: 0x7758acf5a09b20a97a6ea438390bbf0451dc261b36276f51cbfb8ef9ee
f1eac1

```
In [5]: from timeit import default timer
        # Example 1: one char
        starttime = default timer()
        mine address starting with("0xf")
        execution_time = default_timer() - starttime
        print(f"Randomly creating accounts until 1 matching char: {execution time
        # Example 2: two chars
        starttime = default timer()
        mine address starting with ("0xff")
        execution_time = default_timer() - starttime
        print(f"Randomly creating accounts until 2 matching chars: {execution_tim
        # Example 3: three chars
        starttime = default timer()
        mine_address_starting_with("0xfff")
        execution time = default timer() - starttime
        print(f"Randomly creating accounts until 3 matching chars: {execution_tim
        # Example 4: four chars
        starttime = default timer()
        mine_address_starting_with("0xffff")
        execution_time = default_timer() - starttime
        print(f"Randomly creating accounts until 4 matching chars: {execution tim
```

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public address: 0xf1F12B676371a9A6979f9Df0be9Acea3f7aA8e71
private key: 0xceb1a59dfca14ed27cf914ae14522f47ca7e9c90eb76a68014d57850d1
2863fd

Randomly creating accounts until 1 matching char: 0.05 sec

public address: 0xFF93fcdC05611776E3711a5f69eaAC10d938F780
private key: 0xd5e7acdc11d9a2e154f8d6ec92b1fd0beef58c509c3cff71bb22dce91a
92c5b3

Randomly creating accounts until 2 matching chars: 0.38 sec

public address: 0xFFfc6f0e5f4b2C32731703CBEf470Ffc0b0DC4dC
private key: 0x2007d3cb130180754b1deadd9c03922011ec015a24afe8e2748f32321e
dc5e1f

Randomly creating accounts until 3 matching chars: 6.70 sec

public address: 0xfffF269330bdceb0450d06D548E9310b6c34572f
private key: 0xd39e2b93c2f5d385befd7fb78cf168633e1696d8cdc1fb9e7836d26e4d
93bc0a

Randomly creating accounts until 4 matching chars: 130.60 sec

In [ ]: